

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,940,214 B1
DATED : September 6, 2005
INVENTOR(S) : Komiya et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 9,

Lines 14-25, delete and substitute the following:

-- 1. An electroluminescence display device comprising:

a display pixel region disposed on a substrate and comprising an electroluminescence element having, between first and second electrodes, an emissive layer including an organic compound; and
a peripheral drive circuit disposed on said substrate, for controlling said electroluminescence element located in said display pixel region, said peripheral drive circuit being integrated in a peripheral region on an outside of said display pixel region and between said display pixel region and edges of said substrate, said peripheral drive circuit having a plurality of thin film transistors; wherein
said second electrode of said electroluminescence element is a discrete anode;
said emissive layer is formed overlapping said second electrode;
said first electrode is formed overlapping said emissive layer as a common electrode for said display pixel region, said first electrode disposed overlapping said display pixel region, terminating in a substrate region on an inside with respect to said peripheral region, and being absent from said peripheral region. --.

Lines 32, 36 and 40, before "drive", insert -- peripheral --.

Lines 32, 36 and 40, after "circuit", delete "region".

Line 35, after "wherein", delete "a circuit in".

Line 51, before "region", delete "drive circuit" and insert -- peripheral --.

Lines 52-63, delete and substitute the following:

-- 6. An electroluminescence display device comprising a substrate provided with:

a display pixel region having an electroluminescence element including an emissive layer between an anode and a cathode, and first and second thin film transistors for driving said electroluminescence element, said emissive layer includes an organic compound; and
a peripheral drive circuit integrated on said substrate in a peripheral region on an outside of said display pixel region and between said display pixel region and edges of said substrate, said peripheral drive circuit having third thin film transistors for driving said first and second thin film transistors; wherein
said anode is formed overlapping said emissive layer,
said cathode overlaps said display pixel region, terminates in a substrate region on an inside of said peripheral region, and is absent from said peripheral region. --.

Line 65, after "electrode", delete ", and is absent from at least said drive".

Line 66, delete "circuit region".

Column 10,

Lines 2 and 6, before "drive", insert -- peripheral --.

Lines 2 and 6, after "circuit", delete "region".

Line 11, after "located", delete ", said".

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 10 (cont'd).

Line 12, delete "cathode formed overlapping said display pixel region".

Line 15, before "region", delete "drive circuit" and insert -- peripheral --.

Lines 16-28, delete and substitute the following:

-- 11. An emissive display device comprising:

a display pixel region disposed on a substrate and having an emissive element including an emissive layer between first and second electrodes, said emissive layer includes an organic compound; and

a peripheral drive circuit integrated on said substrate in a peripheral region on an outside of said display pixel region and between said display pixel region and edges of said substrate, said peripheral drive circuit having thin film transistors for driving said emissive element;

wherein said first electrode overlaps said display pixel region, terminates in a substrate region on an inside of said peripheral region, and is absent from said peripheral region, said first electrode is a common cathode, and said second electrode is formed overlapping said emissive layer, said second electrode is a discrete anode. --.

Line 31, after "said", delete "drive circuit" and insert -- peripheral --.

Lines 33-46, delete and substitute the following:

-- 13. An electroluminescence display device comprising a substrate provided with:

a display pixel region having an electroluminescence element including an emissive layer between an anode and a cathode, and first and second thin film transistors for driving said electroluminescence element, said cathode is formed in a layer extending above a layer in which said anode is formed, said emissive layer includes an organic compound; and

a peripheral drive circuit integrated on said substrate in a peripheral region on an outside of said display pixel region and between said display pixel region and edges of said substrate, said peripheral drive circuit having third thin film transistors for driving said first and second thin film transistors; wherein

said anode is formed overlapping said emissive layer,

said cathode overlaps said display pixel region, terminates in a substrate region on an inside of said peripheral region, and is absent from said peripheral region. --.

Line 49, after "said", delete "drive circuit" and insert -- peripheral --.

Column 10, line 51 through Column 11, line 1,

Delete and substitute the following:

-- 15. An electroluminescence display device comprising:

a display pixel region disposed on a substrate and having an electroluminescence element including an emissive layer between first and second electrodes, said emissive layer includes an organic compound; and

a peripheral drive circuit region integrated on said substrate in a peripheral region on an outside of said display pixel region and between said display pixel region and edges of said substrate, said peripheral drive circuit region having vertical and horizontal drive circuits, said peripheral drive circuit region having thin film transistors for driving said electroluminescence element; wherein

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Column 10, line 51 through Column 11, line 1 (cont'd).

said first electrode overlaps said display pixel region, terminates in a substrate region on an inside of said peripheral drive circuit region, and is absent from said peripheral drive circuit region,

said first electrode is a common cathode, comprises an opaque metal material, and constitutes an uppermost layer of said electroluminescence element, and

said second electrode is formed overlapping said emissive layer, said second electrode is a discrete anode. ---

Column 11,

Line 4, before "drive" insert -- peripheral --.

Lines 6-23, delete and substitute the following:

-- 17. An electroluminescence display device comprising a substrate provided with:

a display pixel region having an electroluminescence element including an emissive layer between an anode and a cathode, and first and second thin film transistors for driving said electroluminescence element, said emissive layer includes an organic compound; and

a peripheral drive circuit region integrated on said substrate in a peripheral region on an outside of said display pixel region and between said display pixel region and edges of said substrate, said peripheral drive circuit region having vertical and horizontal drive circuits, said peripheral drive circuit region having third thin film transistors for driving said first and second thin film transistors,

wherein said anode is formed overlapping said emissive layer,

said cathode overlaps said display pixel region, terminates in a substrate region on an inside of said peripheral drive circuit region, and is absent from said peripheral drive circuit region,

said cathode comprises an opaque metal material and constitutes an uppermost layer of said electroluminescence element. ---

Line 26, before "drive" insert -- peripheral --.

Lines 28-43, delete and substitute the following:

-- 19. An emissive display device comprising:

a display pixel region disposed on a substrate and having an emissive element including an emissive layer between first and second electrodes, said emissive layer includes an organic compound; and

a peripheral drive circuit integrated on said substrate in a peripheral region on an outside of said display pixel region and between said display pixel region and edges of said substrate, said peripheral drive circuit having vertical and horizontal drive circuits, said peripheral drive circuit having thin film transistors for driving said emissive element;

wherein said first electrode overlaps said display pixel region, terminates in a substrate region on an inside of said peripheral region, and is absent from said peripheral region, said first electrode is a common cathode, and said second electrode is formed overlapping said emissive layer, said second electrode is a discrete anode,

said cathode comprises an opaque metal material and constitutes an uppermost layer of said electroluminescence element. --.

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Column 12,

Line 3, after "said", delete "drive circuit" and insert -- peripheral --.

Lines 5-23, delete and substitute the following:

-- 21. An electroluminescence display device comprising a substrate provided with:

a display pixel region having an electroluminescence element including an emissive layer between an anode and a cathode, and first and second thin film transistors for driving said electroluminescence element, said emissive layer includes an organic compound, said cathode is formed in a layer extending above a layer in which said anode is formed; and

a peripheral drive circuit region integrated on said substrate in a peripheral region on an outside of said display pixel region and between said display pixel region and edges of said substrate, said peripheral drive circuit region having vertical and horizontal drive circuits, said peripheral drive circuit region having third thin film transistors for driving said first and second thin film transistors,

wherein said anode is formed overlapping said emissive layer,

said cathode overlaps said display pixel region, terminates in a substrate region on an inside of said peripheral drive circuit region, and is absent from said peripheral drive circuit region, and

said cathode comprises an opaque metal material and constitutes an uppermost layer of said electroluminescence element. --.

Line 26, before "drive" insert -- peripheral --.

Lines 28-42, delete and substitute the following:

-- 23. An emissive display device comprising:

a display pixel region disposed on a substrate and having an emissive element including an emissive layer between first and second electrodes, said emissive layer includes an organic compound; and

a peripheral drive circuit region disposed on said substrate and is formed in a region around said display pixel region and between said display pixel region and edges of said substrate, said peripheral drive circuit region having thin film transistors for driving said emissive element;

wherein said first electrode overlaps the entire display pixel region, terminates in a substrate region on an inside of said peripheral drive circuit region, and is absent from at least said peripheral drive circuit region, said first electrode is a common cathode, and said second electrode is a discrete anode, and

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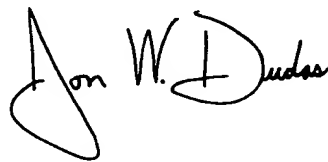
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 12 (cont'd).

said cathode includes an end portion that extends to an area between said display pixel region and said peripheral drive circuit region. --.

Signed and Sealed this

Thirteenth Day of June, 2006

A handwritten signature in black ink, appearing to read "Jon W. Dudas". The signature is stylized with a large, looping initial "J" and a distinct "D".

JON W. DUDAS
Director of the United States Patent and Trademark Office